

104957-ELE-3CM-E-2001
Electrical Maintenance Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 14 years hands-on years experience in G.I.S. substation operation and maintenance, experienced in maintenance and repair of G.I.S. switchgears, circuit breaker testing, and transformers electrical testing.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/07/1977
Gender : Male
Marital Status : Married
Residence : Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Zagazig University, 2001

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : SUN Microsystems, SUN Certified Java Programmer (SCJP) (2002).
- : Advanced training course about (SF6) dielectric gas usage and testing in electrical equipment, Power Plants Training Center (Feb. 2009).
- : Advanced operation training in Shoubra El-Kheima Thermal Power Plant, Cairo (4x325MW) Ansaldo, front and rear, natural gas / H.F.O. fired, natural circulation boiler, Westinghouse generator and turbine design, training offered by Bechtel, Shoubra El-Kheima Training Center (from Feb. till Apr. 2003).
- : Information Technology (IT) training course in Mansoura Training Center about developing computer applications and web designing, using advanced java tools on java2 platform, Allied Consultants Company (from Nov. 2001 till Apr. 2002).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2003 till now
- Employer** : Egypt Electricity Holding Company (EEHC) - Cairo Electricity Production Company (CEPC)
- Project** : Cairo West GIS substation 220/66/11KV:
- GIS substation description:
 - Three transformers 125 MVA (220/66/11KV)
 - One transformer 175 MVA (220/66/11KV)
 - Two transformers 40 MVA (66/11KV)
 - One transformer 25 MVA (66/11KV)
 - Six feeders 220KV (OHL)
 - Eight feeders 66KV (UGC)
 - 11KV Distributor
 - 220KV switch gear contains two bus-bars, single breaker (pneumatic drive) with 23 bays including one bus-coupler, these bus-bars receive power from generation units, and OHTL(s) and send it to 4 transformers (220/66/11KV) 3 x 125 MVA and 1 x 175 MVA, also there are 6 overhead lines 220KV (from other substations) may receive or deliver power.
 - 66KV switch gear contains two bus-bars, single breaker (pneumatic drive) with 25 bays including two bus-sectionalize and two bus-coupler, these bus-bars receive power from the 4 transformers (220/66/11KV) 3 x 125 MVA and 1 x 175 MVA and send it to 8 under-ground cables 66KV and 3 transformers (66/11KV) 1 x 25 MVA and 2 x 40 MVA.
 - 11KV switch gear contains three bus-sections with 33 vacuum breakers (motor drive) including three bus-sectionalizes and receive power from the three transformers (66/11KV) and deliver it to 26 feeders of 11KV.
- Job title** : Electrical Maintenance Engineer
- Job Description** : One of the team work who responsible for carrying out preventive maintenance (PM) and corrective maintenance (CM) of a Gas Insulated Substation (220 / 66 / 11KV) and responsible for (for example):
- Maintenance and repair of G.I.S. switchgears such as scheduled inspection of the high speed earthing switches.
 - Circuit breaker testing such as measuring of contact resistance and timing.
 - Dielectric gas (SF6) treatment and testing such as gas percentage, dew point, and decomposition of the gas.
 - Transformers electrical testing such as turns ratio, winding dc resistance, insulation measurement (megger), and capacitance and dissipation factor (tan-Delta).
 - Control circuit inspection, repair, and troubleshooting.
- Attend the following projects, representing the owner:**
- Installing and commissioning of 125 MVA (220/66/11KV) new transformer supplied by BHARAT heavy electrical industries, India. Installed and commissioned by Egyptian Electricity Transmission Company (2008).
 - Installing and commissioning of 40 MVA (66/11KV) new transformer supplied by EL-SEWEDY for transformers industries, Egypt. Installed and commissioned by Egyptian Electricity Transmission Company (2011).

- Installing and commissioning of new 220KV bay supplied by AREVA (ALSTOM) as an extension for the existing 220KV switchgear. Installed and commissioned by AREVA (ALSTOM) (2011).
- Installing and commissioning of new 66KV TWO bays supplied by AREVA (ALSTOM) as an extension for the existing 66KV switchgear. Installed and commissioned by AREVA (ALSTOM) (2011).
- Installing and commissioning of 40 MVA (66/11KV) new transformer supplied by ELMACO for transformers industries, Egypt. Installed and commissioned by Egyptian Electricity Transmission Company (2016).
- Installing and commissioning of 175 MVA (220/66/11KV) new transformer supplied by GETRA POWER SpA, Italy. Installed and commissioned by Egyptian Electricity Transmission Company (2017).
- Installing and commissioning of new 66KV bay supplied by GE (ALSTOM) as an extension for the existing 66KV switchgear. Installed and commissioned by GE (ALSTOM) (2017).